

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|------------|-------------------------------|-----------------|------------------|
| Applicant: | Kia Silverbrook | Examiner: | Not yet assigned |
| Serial No. | Not yet assigned | Group Art Unit: | Not yet assigned |
| Filed: | Herewith | Docket No. | 360040-18 |
| Title: | INKJET PRINTHEAD WITH NOZZLES | | |

CERTIFICATE UNDER 37 CFR 1.10

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By: 

Name: Amber Stewart

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

IN THE CLAIMS

Please cancel original claim 1 and add new claims 154-160 as follows:

154. (New) An inkjet printhead having a series of ink ejection nozzles for the ejection of ink, each of said nozzles interconnecting a nozzle chamber with an external atmosphere, each said nozzle having a first meniscus rim around which an ink meniscus normally forms, and an extended ink flow prevention rim spaced outwardly from said first meniscus rim and substantially encircling said first meniscus rim, arranged to prevent the flow of ink across the surface of said inkjet printhead.

155. (New) An inkjet printhead as claimed in claim 154 wherein said first meniscus rim and said extended ink flow prevention rim are spaced apart by a pit arranged to contain ink.

156. (New) An inkjet printhead as claimed in claim 154 wherein said ink flow prevention rim is substantially co-planar with said first meniscus rim.

157. (New) An inkjet printing arrangement as claimed in claim 154 wherein said ink flow prevention rim is formed from the same material as said first meniscus rim.

158. (New) An inkjet printing arrangement as claimed in claim 154 wherein said ink flow prevention rim and said first meniscus rim are formed utilizing chemical mechanical planarization.

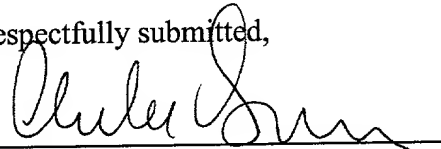
159. (New) An inkjet printing arrangement as claimed in claim 154 wherein said ink flow prevention rim and said first meniscus rim are formed from PECVD TEOS.

160. (New) An inkjet printing arrangement as claimed in claim 154 wherein said ink flow prevention rim and said first meniscus rim are formed from silicon nitride.

REMARKS

Kindly examine the application based on the above claims.

Respectfully submitted,



Charles Berman
Reg. No. 29,249

Date: April 16, 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant : Kia Silverbrook
 Application No.:
 Filed : April 10, 2001
 Title : IMPROVEMENTS RELATING TO INKJET PRINTERS

Docket No. : 360040
 Group/Div. :
 Examiner :

PRELIMINARY AMENDMENT

Commissioner for Patents
 Washington, D.C. 20231

2029 Century Park East, Suite 3800
 Los Angeles, CA 90067-3024
 April 10, 2001

Commissioner:

IN THE CLAIMS

Please delete claims 1 to 129 and insert new claims 130 to 137

130. (New) An inkjet printhead having a series of nozzles for the ejection of ink wherein each said nozzle has a rim formed by the deposition of a rim material layer over a sacrificial layer and a subsequent planar removal of at least said rim material layer so as to form said nozzle rim.

131. (New) An inkjet printhead as claimed in claim 130 wherein said planar removal comprises chemical - mechanical planarization of said rim material layer.

132. (New) An inkjet printhead as claimed in claim 131 wherein parts of said sacrificial layer are also removed by said planar removal.

133. (New) An inkjet printhead as claimed in claim 130 wherein said planar removal process is an etching process.

1 134. (New) An inkjet printhead as claimed in claim 130 wherein said rim material layer
2 comprises TEOS glass.

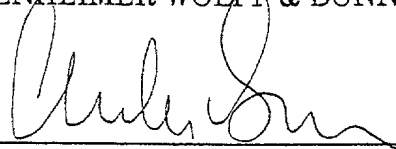
1 135. (New) An inkjet printhead as claimed in claim 130 wherein said rim material layer is
2 PECVD Si₃N₄.

1 136. (New) An inkjet printhead as claimed in claim 130 wherein said rim material layer is
2 MOCVD TiN.

1 137. (New) An inkjet printhead as claimed in claim 130 wherein said rim material layer is
2 ECR CVD TiN.

Respectfully submitted,

OPPENHEIMER WOLFF & DONNELLY, LLP

By 

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